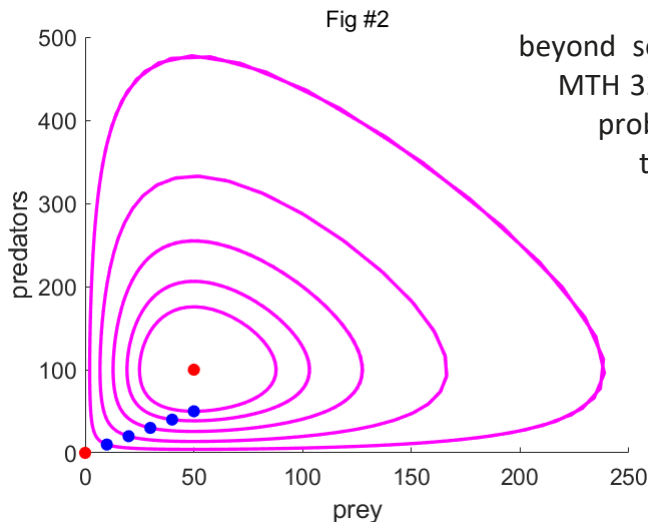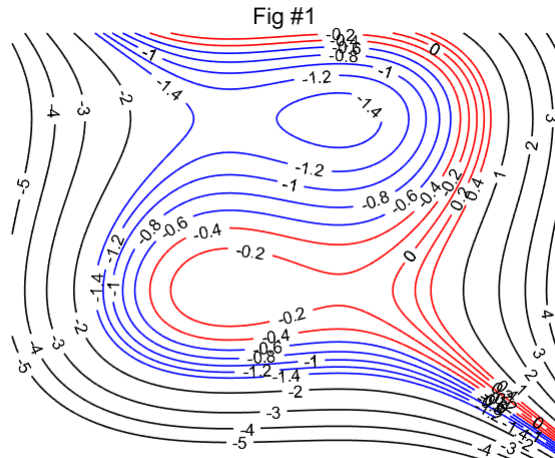**MTH 3200 HONORS DIFFERENTIAL EQUATIONS**

Dear Student,

This information is right for you if you are going to take our **MTH 2201 Differential Equation (DE)** course and think about making this experience more rewarding and particularly useful in your future study and career. We would like to invite you to register/switch to **MTH 3200 Honors Differential Equations**. The honors version of the DiffEq course is supplied with the same level of theory as MTH 2201, but it goes far

Fig #1

Fig #2

beyond solving differential equations just analytically. MTH 3200 is designed to provide more hands-on and problem-solving experiences while you learn about the concepts: how to visualize the solutions for a single DE (Fig #1) or systems of DEs (Fig #2) and assess their properties from available images, how to obtain solutions without solving DEs by using computational tools (Fig #3), what to do if it appears that analytical solutions cannot be obtained, etc. Minimal computational skills are required as all

coding templates will be provided (e.g., in MATLAB). This course is a **perfect match** for those who consider exploring research opportunities, either at undergraduate or graduate levels, involving the use and analysis of solutions for ODEs and PDEs with various applications. MTH 3200 could be also taken **instead of the regular DiffEq class** (with the prerequisite of having **at least B for Calculus 1 & 2** in **either** honors or regular sections). In terms of grading, the Honors version also shifts more weight (up to 40%, in comparison with regular DiffEq

Fig #3

sections) to the **course project** and **take-home computational labs**. Please feel free to reach out to the course instructor, Dr. Bukshtynov (vbukshtynov@fit.edu), if you have any questions or have trouble with registration.